

# Recovery Plan Action Status

Plan Name: Listed Cats of Arizona/Texas (3 ssp.)

Plan Status: Final

Plan Date: 22-Aug-90

Lead Agency: USFWS

Lead Office: Laguna Atascosa National Wildlife Refuge

(796)  
(748-3607)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli)	1	1.1.1	Map existing and suitable brushlands in Texas	Partially Complete	FY 2009		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Texas State University, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund, Private Landowners	Research: Habitat Status, Research: Other Information	Graduate Student, Internal Field Assistance, Internal Technical Assistance	Note: Action priority 1b. Remotely sensed - 1 Temp FTE - Limited to 8 counties in south Texas - 250/man day @250 days - 7,500 travel and equip related expenses; some areas completed, other areas had no access and could not be completed.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli)	2	1.1.10	Identify and prioritize lands for habitat restoration	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, The Nature Conservancy, Texas Parks and Wildlife Department, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund, Private Landowners, Pronatura, SEMERNAT	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	1.1.11	Identify habitat linkages and necessary crossing structures in south Texas	Ongoing Current	FY 2000 - FY 2004		U.S. Department of Transportation, U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Texas Department of Transportation, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b. Done in conjunction with map existing habitat - amt is additional required

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	1.1.2	Map existing and suitable brushlands in Tamaulipas	Not Started			U.S. Fish and Wildlife Service, Instituto de Ecologia y Alimentos, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.1.6	Identify conservation lands in TTMU range	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, The Nature Conservancy, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.1.7	Identify, field verify, and map connections between TTMU populations	Planned	FY 2009		U.S. Fish and Wildlife Service, Caesar Kleberg Wildlife Research Institute, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.2.1	Develop, distribute, and implement habitat guidelines	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Environmental Defense Fund	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.2.2	Foster partnerships with landowners	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund, Instituto de Ecologia y Alimentos, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	TPWD has ongoing efforts by Tech guidance biologist to foster partnerships with landowners

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.2.3	Prioritize and acquire necessary conservation easements/lands	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, The Nature Conservancy, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Environmental Defense Fund, Pronatura, SEMERNAT	Acquisition: Easement	Labor type not yet selected	Includes protection through both fee title and conservation easements. In FY08, CCESFO & TNC moved a section 6 RLA grant from 1 tract to the Yturria Ranch; paid for a conservation easement. In FY08, CCESFO began negotiating for conservation easements for ~300 acres as preparation for Laguna Vista's golf course applying for a HCP.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.2.4.1	Develop methods to restore thornscrub	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Caesar Kleberg Wildlife Research Institute	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.2.4.2	Identify and map soils for thornscrub restoration	Ongoing Current	FY 2010		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Caesar Kleberg Wildlife Research Institute, Pronatura	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.2.4.3	Implement thornscrub restoration	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, The Nature Conservancy, Texas Parks and Wildlife Department, Texas Department of Transportation, Defenders of Wildlife, Environmental Defense Fund, Private Landowners	Work type not yet selected	Labor type not yet selected	Estimate plant 250 acres/year @400 seedlings/acre to establish 200 seedlings/acre live after 1 year - assume a price of \$2/seedling - 50,000 annually for site prep etc.

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.2.4.4	Develop and implement a monitoring program for restored thornscrub	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund	Other	Labor type not yet selected	250/man day @ varying number days depending on number of restoration sites to analyze
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.3.2.1	Determine habitat selection in Sonora	Not Started			SEMERNAT	Work type not yet selected	Labor type not yet selected	Survey methodology, field data, staff; combine with 1.3.1.3, 1.3.2.2., 1.3.2.3.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.3.2.2	Determine movements and sub-adult dispersal in Sonora	Not Started			SEMERNAT	Work type not yet selected	Labor type not yet selected	Field work; combine with 1.3.1.3, 1.3.2.2., 1.3.2.3
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.3.2.3	Identify conduits and barriers to movements in Sonora	Not Started			U.S. Fish and Wildlife Service, Arizona Game and Fish Department, SEMERNAT	Work type not yet selected	Labor type not yet selected	GIS, field work; combine with 1.3.1.3, 1.3.2.2., 1.3.2.3
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	1.3.2.4	Identify food habits and prey preference, abundance, and distribution in Sonora	Not Started			SEMERNAT	Work type not yet selected	Labor type not yet selected	Collars, field work, data management; combine with 1.3.1.3, 1.3.2.2., 1.3.2.3
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.4	Identify significant threats to ASMU populations	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Arizona Game and Fish Department, SEMERNAT	Work type not yet selected	Labor type not yet selected	Staff salary in combination with 1.3. actions

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	1.5	Identify mechanisms to reduce and alleviate threats to ASMU	Not Started			U.S. Fish and Wildlife Service, Arizona Game and Fish Department, U.S. Customs and Border Protection, SEMERNAT	Work type not yet selected	Labor type not yet selected	Staff salary in combination with 1.3. actions
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	2.1.1	Quantify road effects on habitat suitability; determine ocelot road density threshold	Not Started			U.S. Department of Transportation, U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Texas Department of Transportation, Caesar Kleberg Wildlife Research Institute	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	2.1.2	Identify optimal locations for road crossing structures	Ongoing Current	FY 1995 - FY 1999		U.S. Department of Transportation, U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Texas Department of Transportation, Caesar Kleberg Wildlife Research Institute	Work type not yet selected	Labor type not yet selected	Note: Action priority 1a.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	2.1.3	Identify design specifications for crossing structures and other mortality-reducing features	Ongoing Current	FY 2009		U.S. Department of Transportation, Texas Department of Transportation, Caesar Kleberg Wildlife Research Institute	Work type not yet selected	Labor type not yet selected	Note: Action priority 1a. TxDOT contractor monitored for ocelot use of cat crossings installed by TxDOT on Hwy 106 near LANWR.

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	2.3.2	Reduce impacts of border-associated structures	Ongoing Current	FY 2000 - FY 2004		International Boundary and Water Commission, U.S. Department of Transportation, U.S. Department of Homeland Security, U.S. Fish and Wildlife Service, Texas Department of Transportation, U.S. Customs and Border Protection, Caesar Kleberg Wildlife Research Institute, Secretaria de Comunicaciones y Transportes	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b. Variable according to intermittent border projects
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	2.3.3	Maintain and enhance thornscrub habitats near the border	Ongoing Current	FY 1995 - FY 1999		International Boundary and Water Commission, U.S. Department of Homeland Security, U.S. Fish and Wildlife Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	Note: cost in FY 2009 is currently ongoing.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	3.1.2	Monitor genetic health and diversity in Tamaulipas populations; evaluate genetic augmentation	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Caesar Kleberg Wildlife Research Institute, SEMERNAT, Universidad Nacional Autonoma de Mexico	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b. For analysis of 40 samples per year
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	3.2.1	Conduct experimental translocations	Planned			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Caesar Kleberg Wildlife Research Institute, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	3.2.2	Augment existing populations as necessary through translocation*	Planned			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Caesar Kleberg Wildlife Research Institute, Dallas Zoo, Gladys Porter Zoo, SEMERNAT	Work type not yet selected	Labor type not yet selected	Ongoing as necessary

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	3.5.1	Establish protocols for physiological assessment and individual identification	Not Started			U.S. Fish and Wildlife Service, Caesar Kleberg Wildlife Research Institute, SEMERNAT, Universidad Nacional Autonoma de Mexico	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	3.5.2	Conduct serology and pathology surveys	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Caesar Kleberg Wildlife Research Institute, SEMERNAT, Universidad Nacional Autonoma de Mexico	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.1.2	Continue recovery through Implementation and Technical Subgroups of Recovery Team	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Association of Zoos and Aquariums, Private Landowners	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	4.1.3	Develop cooperative conservation projects with willing landowners	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Defenders of Wildlife, Environmental Defense Fund, SEMERNAT	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouaroundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	4.1.4	Develop and implement incentive programs for landowners to implement recovery on non-federal lands	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Environmental Defense Fund, SEMERNAT	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b.

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.1.5	Support work by biologists in Mexico to survey habitat	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Defenders of Wildlife, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.1.6	Develop partnerships with Mexican agencies and landowners to implement recovery actions	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service, The Nature Conservancy, Defenders of Wildlife, Environmental Defense Fund, Naturalia, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	4.1.7	Encourage participation by DHS and CBP with conservation agencies	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.2.2	Assure compliance with regulations for oil and gas development and seismic operations	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.3.1	Maintain an education/outreach working group	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Association of Zoos and Aquariums, Defenders of Wildlife, Environmental Defense Fund	Work type not yet selected	Labor type not yet selected	NOTE: Action duration is at least 7 years, probably more. Others? Sky Island Alliance, Borderlands Working Group, Audubon, Sierra Club



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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.3.2.1	Develop education materials and plans for Texas	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Association of Zoos and Aquariums	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	4.3.2.2	Develop education materials and plans for Tamaulipas and Sonora	Not Started			Association of Zoos and Aquariums, Defenders of Wildlife, Naturalia, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	Other Mexican education groups?
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	4.3.3	Monitor and assess effectiveness of outreach efforts	Not Started			Association of Zoos and Aquariums, Defenders of Wildlife, Pronatura	Work type not yet selected	Labor type not yet selected	Start evaluation 2 y after implementation and then every two years
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	5.1	Develop monitoring schedule and protocol for core populations	Planned			U.S. Fish and Wildlife Service, Caesar Kleberg Wildlife Research Institute	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	1	5.2	Develop agreements to survey populations and habitats on non-federal lands	Planned			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Caesar Kleberg Wildlife Research Institute, Environmental Defense Fund	Work type not yet selected	Labor type not yet selected	Note: Action priority 1b.
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	5.3	Conduct monitoring of recovery	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Caesar Kleberg Wildlife Research Institute, SEMERNAT	Work type not yet selected	Labor type not yet selected	

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Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	5.5	Develop data sharing and data repository	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Arizona Game and Fish Department, Caesar Kleberg Wildlife Research Institute, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	6.1	Track skin locations to determine source of illegal harvest	Not Started			U.S. Fish and Wildlife Service, Caesar Kleberg Wildlife Research Institute	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	2	6.2.2	Support international groups to implement Meso-american corridor	Not Started			U.S. Fish and Wildlife Service, Defenders of Wildlife, Naturalia, Pronatura, SEMERNAT	Work type not yet selected	Labor type not yet selected	
Gulf Coast jaguarundi (Herpailurus (=Felis) yagouarundi cacomitli), Ocelot (Leopardus (=Felis) pardalis)	3	6.3	Coordinate recommendations and available genetic data from international zoos	Not Started			Association of Zoos and Aquariums	Work type not yet selected	Labor type not yet selected	